1 ABSTRACT

2   A method of obtaining data for a geographic database is disclosed. Data

3 indicating a plurality of locations along roads including data indicating altitudes at the

4 plurality of locations is provided. Road grade values for a plurality of subsections of the

5 road are computed; each of the subsections is a portion of the road between two of the

6 locations. A plurality of temporary change points are identified as joining two adjacent

7 subsections having road grade values that differ by a value greater than a predetermined

8 amount. Road grade values for each part of the road between adjacent temporary change

9 points are computed. Consecutive parts of the road having road grade values that falls

10 within a predetermined range are grouped into at least one constant road grade section.

11 The geographic database stores data that define the constant road grade section.